CME

TWC Reg. No. 31479

TEXAS WATER COMMISSION Comprehensive GW Monitoring Evaluation (CME) Report

INSPECTION COVER SHEET

		C.U.Use Unity		
EPA ID No. TX D095217	766	Date Entry Date		
NAME OF COMPANY Nalco C	hemical Con	many		
SITE ADDRESS Rt 1 Box	213F Odess	a Tx Tel 915/5632125		
COUNTY Midland TYPE OF INDUSTRY Milfield service				
Current GW Monitoring Status:	Pollution Con	tool Pond - no ground		
(Specify for each Waste Management Area "WMA")	water monig	oring system in		
Inspection Information:	Closure plan u detected	nless soils contamination		
	neher	Date(s) 2/3/87		
Participants				
Type of Inspection (check) EV CME / SA				
Evaluation: S	u NA	Signed: Casel Baruke		
A. Monitoring System		Inspector Date: 2/27/87		
B. Sampling Procedures				
C. Analysis & Results	<u>\</u>	Signed: Sandra Cuderson		
D. Records & Response		Reviewer Date: 3/29/87		
S= Satisfactory U= Unsatisfactory				
Overall Evaluation: Comp	liant 🗸 NonComplia	ant		

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TEXAS WATER COMMISSION Comprehensive GW Monitoring Evaluation (CME) Report

CONTENTS SHEET

FACILITY	NAME Nako Chemical Company.			
<u>V</u> 1.	Code Sheet (Ø814)			
2.	Interoffice Memorandum (IOM)			
3.	Inspection Cover Sheet			
4.	Technical Report, with supporting Attachments			
	V A. Monitoring System			
	B. Sampling Procedures			
	C. Analysis and Results			
	D. Records and Response			
5. 6. 7.	. Notice of Violation (NOV) / Enforcement Letter to Facility			
	·			
* If a required Checklist is omitted. Explain: No. a. Mundaling to				
* If a required Checklist is omitted, Explain: No ground-water. Menitoring 545 km in place				
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TECHNICAL REVIEW Comprehensive Ground Water Monitoring Evaluation

I. Introduction

- A. Company Nalco Chemical Company
 - 1. Process description: oilfield chemical warehouse and transport facility
 - 2. Plant site has been in operation since: 1976
- B. Physiography and Climate
 - Site Topography Attachment I (indicate site location directly on map or reproduction)
 - 2. Average Annual:
 - a. Rainfall 12-14"
 - b. Temperature 64-65°F
 - c. Evaporation 80-81"
 - 3. Was an annual water balance budget submitted by the company (yes/no)? No.
 - 4. Surficial Soils Map Attachment II
 - a. Soil type Arvana fine sandy loam, 1-3% slopes, Amarillo fine sandy loam, 1-3% slopes (northern quarter of site)
 - b. Soil properties, including permeability, texture, etc. friable, moderately permeable, well drained, erosion hazard is moderate. The Arvana soils, approximately 32" thick, develop over indurated caliche. The Amarillo soils are generally 60+" thick and develop over less consolidated calcareous sediments.
 - 5. Proximity to surface water bodies and other recharge/discharge features: Several small playa lakes are near the site, the closest being less than 1/4 of a mile to the southwest of the site.
 - 6. Proximity to water supply wells: There are at least 8 water supply wells within a one mile radius of the facility (TDWR Report 235).
- C. Waste Management Units:
 - 1. Indicate units on Site Diagram (Attachment IV)
 - 2. Indicate waste management area (WMA) boundaries on Site Diagram (Attachment IV)

3. Waste management units (complete this section for each waste management unit):

Unit name - Pollution Control Pond

Size - 80' x 75' x 8'

Year in service - 1976

Status* - inactive, TWC required modifications to the

closure plan

Construction - gunnite lined below grade surface impoundment

Type of waste - various oilfield related chemicals from drum and truck washings, includes scale inhibitors,

corrosion inhibitors and emulsion breakers.

Total volume of

waste received - unknown

* active, closed, inactive, regulated unit, nonhazardous

4. If a unit is closing or closed, complete the closure checklist and include as Attachment III

II. Technical Review

A. Hydrogeology

- 1. Regional Geology (Pecos Sheet, Geologic Atlas of Texas)
 - a. Physiographic province: Edwards Plateau, Southern High Plains
 - b. Formation(s): Windblown cover sand overlying the Antlers sand of the Trinity Group.
 - 1) lithology fine to coarse grained friable sandstone
 - 2) regional dip and gradient southeast at 8 to 10 ft/mile
 - c. Usable quality (<10,000 TDS) ground water
 - depth to top/bottom usable quality water occurs under confined conditions in the Antlers sand, which is encountered at approximately 50 to 75 feet below grade. The potentiometric surface of the ground water is located at approximately 30 to 35 feet below grade.
 - 2) reference TDWR Report 235
 - d. Regional ground water flow:
 - 1) direction southeast at 20 ft/mile
 - 2) reference TDWR Report 235
 - e. Is the site located on the recharge area of a major/minor named aquifer (yes/no)? Yes. Aquifer name: Edwards/Trinity Aquifer
- 2. Site Hydrology
 - a. Site Diagram Attachment IV (include locations of waste management area(s), borings, wells, lines of cross-sections)
 - b. Depth to water 30 to 35 feet below grade
 As determined by TDWR Report 235
 - c. Site stratigraphy to depth of investigation No stratigraphic data is available for this site.
- 3. Site Ground Water Movement No site hydrologic data is available for this site.

III. Response

- A. Include a copy of the waiver demonstration. No waiver demonstration has been submitted.
- B. Has a facility site investigation been conducted (yes/no)? No.
- C. List, in chronological order, activities, events and correspondence relating to groundwater activities in Attachment V.

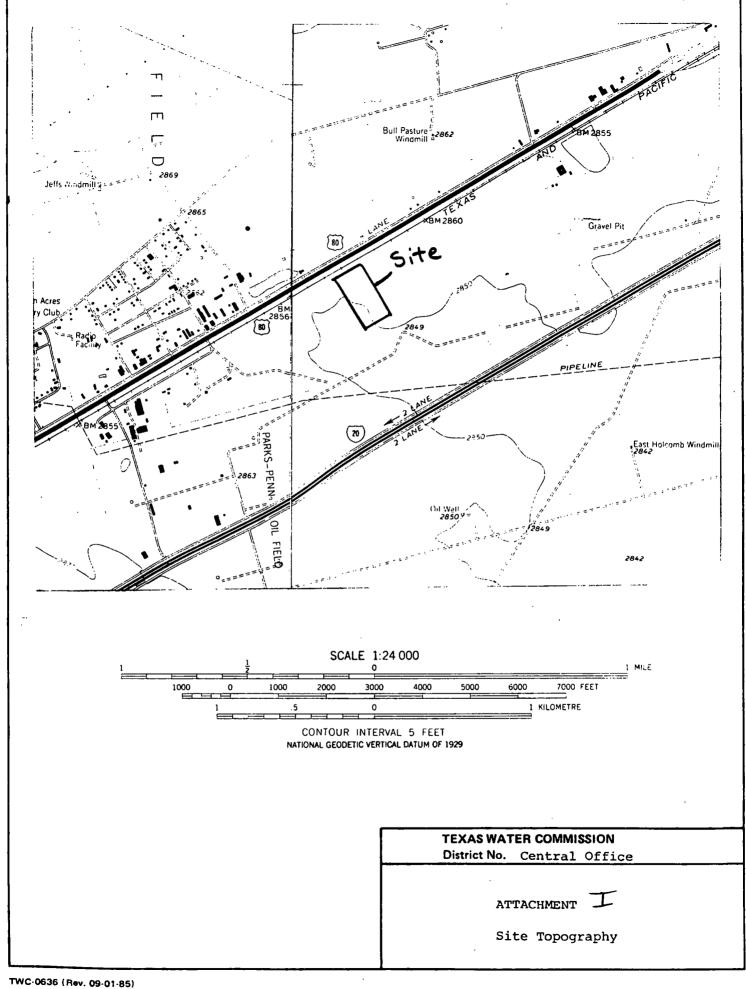
IV. Conclusions and Comments

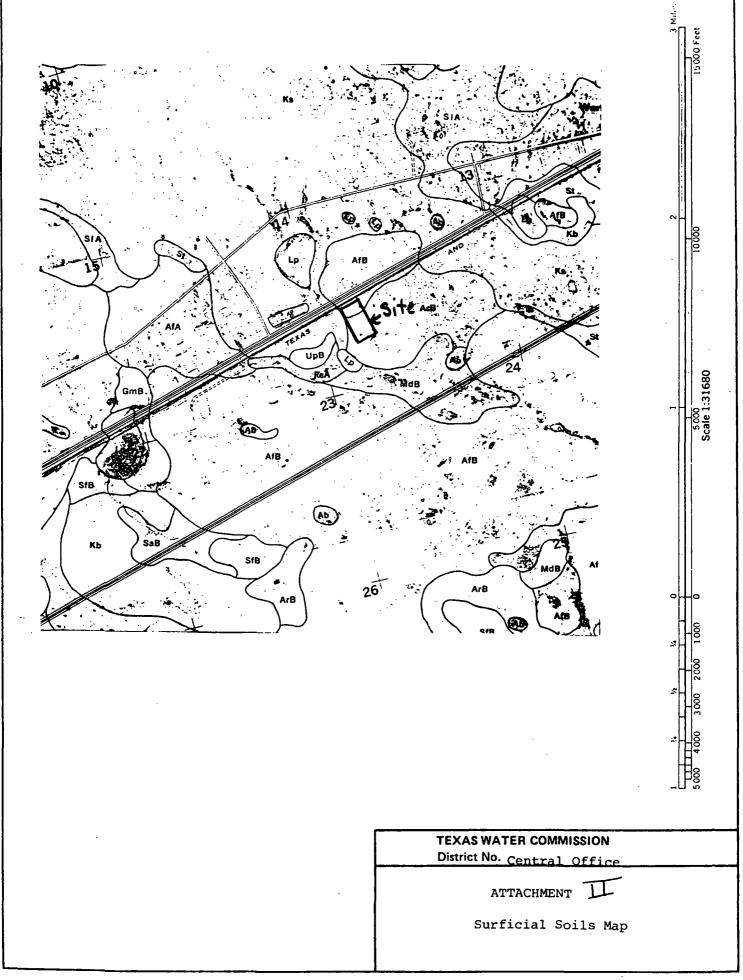
The Nalco Pollution Control Pond is a gunnite lined surface impoundment. Based on a limited soils investigation, conducted in the northern quadrant of the pond, no organic contamination of the soils underlying the pond had occurred. No monitor wells have been installed. All pond contents have been removed. The pond will be used as secondary containment for two above-ground fully inspectable tanks.

The approved closure plan included the following provisions:

- 1. Subsurface soil samples shall be taken from the assessable sides of the impoundment. The facility explained that if samples were obtained from immediately beneath the gunnite liner, the integrity of the liner might be destroyed. The facility has approval from the EPA (as stated in the Consent Agreement of 5/30/86) to utilize the gunnite liner as secondary containment for the above-ground tanks;
- 2. One boring shall be advanced to first encountered ground water, and a soil sample obtained from the soil immediately overlying the ground water surface; and,
- 3. The soil samples shall be analyzed for naphthalene, ancenapthene, fluorene, phenanthrene, di-n-butyl phthalate, toluene and ethylbenzene (those organics that had been analyzed in the pond contents).

If no contamination is detected in these soil samples, no further actions regarding the pond will be undertaken by the facility. The results of the sampling, per the schedule included in the closure plan, should be submitted to the TWC in April, 1987.





A. ACHMENT II

TWC Solid Waste Inspection Report

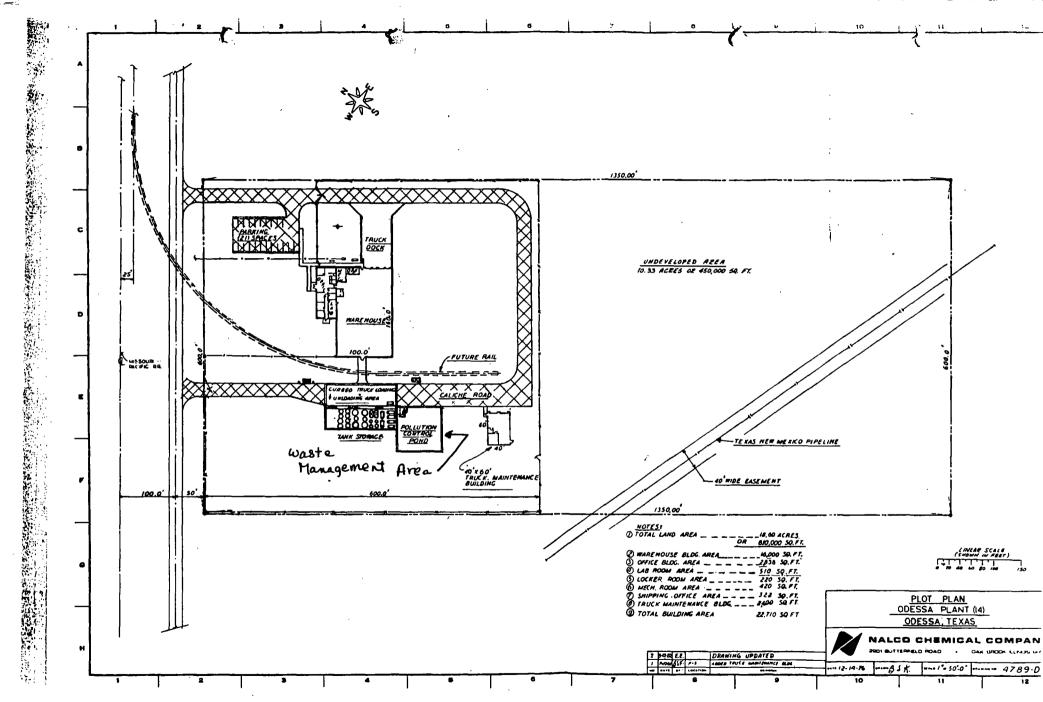
CLOSURE-in-PROGRESS CHECKLIST

TWC Reg. No. 31479

Facility No. NA

09/86

	•	teg. ractifity no.
Тур	e of facility component: Surface Impoundment	
1.	Is the facility component being closed a RCRA unit?	YES NO
2.	Type of closure: Full-Facility Closure Partial Closure	
3.	Has closure plan received TWC approval or final modification? Date of approval: 11/5/5/6	N/A YES NO
4.	Is this the last on-site facility to be closed which requires RCRA groundwater monitoring? N/A_	YES V NO
5.	Has an approved public notice of closure been published? N/A_Date published:	YES NO*
6.	Is a public hearing required? Date of hearing:	YESNO
7.	Has on-site closure work started? Date work initiated: 11/86	YES / NO
8.	Is closure work proceeding according to the work schedule in the approved closure plan?	N/A YES V NO
9.	Have 180 days elapsed since TWC approval of the closure plan? N/A_	YES NO V
٠	a. If Yes, Has TWC approved an extension period?	N/A YES NO
10.	Was District Office notified of sampling event when complete removal (i.e., clean closure) of a Land Disposal facility was to have been accomplished?	n/a yes V no
11.	Were TWC samples taken to verify completion of closure?	YES NO
	NOTE: List chain-of-custody sample tag numbers in comments.	
	Is the closure work completed? Date of completion:	YESNO
13.	Has the closure certification been submitted to TWC? N/A_Attach copy or explain. Date of certification:	YESNO_V
* No	ctice of the oquirement to Publish Public notice generate consequence of this CME.	d to the facility as
***	An entry in this column indicates explanation/response is nee	ded. 09/86



ATTACHMENT III Site Diagram

ATTACHMENT V

Response

- 3/15/85 District-10 sent an IOM to the Central office (TDWR) requesting enforcement action based on on-going violations observed during a 2/22/85 industrial solid waste compliance inspection.
- 5/8/85 TDWR Central office referred the facility to the EPA for enforcement action.
- 5/14/85 EPA conducted RCRA Compliance Monitoring Inspection
- 10/1/85 EPA issued Complaint against Nalco
- 10/31/85 Nalco responded to the Complaint, stating that the material stored in the Pollution Control Pond was beneficially reused as flush water in the treatment of oil wells, and was not a waste.
- 11/8/85 EPA sent copy of Nalco closure plans for the Pollution Control Pond to TDWR
- 5/30/86 EPA filed Consent Agreement and Final Order against Nalco.

Violations included:

- 1. 31 TAC 335.43(b)/40 CFR 270.10(e) late Part A permit
 application
- 2. 31 TAC 335.287/40 CFR 265.229(a) ignitable or reactive waste placed in pond
- 3. 31 TAC 335.118(a)/40 CFR 265.17 "No Smoking" signs not posted
- 4. 31 TAC 335.118(b)/40 CFR 265.17 co-mingling of reactive wastes
- 5. 31 TAC 335.114(a)(1)/40 CFR 265.13(a) no waste analysis
- 6. 31 TAC 335.114(b)/40 CFR 265.13(b) no waste analysis plan

Compliance schedule included:

- 1. Amend RCRA notification to reflect RCRA status,
- 2. Submit RCRA Part A permit application,
- 3. Submit closure plans for pond in accordance with 40 CFR 265 subparts G and K by 11/23/85,
- 4. Sample and report analysis of sludge\sediment in pond bottom and soils underlying liner,
- 5. Submit closure certification upon completion of closure, and
- 6. Post necessary "No Smoking" signs.

ATTACHMENT V (cont'd)

- 7/9/86 TWC required modifications to the Nalco closure plan recieved on 11/8/85. The modifications included a more comprehensive soils boring program with at least one soil boring being terminated at first encountered ground water.
- 10/21/86 Nalco submitted amendments to their closure plan.
- 11/5/86 TWC approved the Nalco closure plan.